

Comparisons of Job Characteristics

Focus Occupation: [Electrical and Electronics Drafters \(17-3012\)](#)

Associated Occupation: [Mechanical Drafters \(17-3013\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 95

Focus Occupation: Electrical and Electronics Drafters (17-3012)

Associated Occupation: Mechanical Drafters (17-3013)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Design	5.2	22.0	16.9	<<	Extensive education and/or training may be required
Engineering and Technology	5.7	17.6	12.7	<<	Extensive education and/or training may be required
Mathematics	9.2	13.0	11.1	<	Expanded education and/or training may be required
Mechanical	6.8	12.4	8.6	<<	Extensive education and/or training may be required
Physics	4.3	8.3	5.7	<<	Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 85

Focus Occupation: Electrical and Electronics Drafters (17-3012)

Associated Occupation: Mechanical Drafters (17-3013)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Mathematics	6.2	10.6	7.1	<<	Extensive development of skills in this area may be required
Operations Analysis	5.0	8.6	8.2	0	Current skill level may be sufficient
Technology Design	2.6	6.0	2.6	<<	Extensive development of skills in this area may be required
Programming	2.2	5.8	2.4	<<	Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 93			
Focus Occupation: Electrical and Electronics Drafters (17-3012) Associated Occupation: Mechanical Drafters (17-3013)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Near Vision	11.1	12.7	12.2	0	Current ability level may be sufficient
Visualization	7.5	11.7	9.9	<	Some improvement in abilities may be required
Mathematical Reasoning	6.3	11.1	7.6	<<	Extensive improvement in abilities may be required
Flexibility of Closure	7.8	9.9	7.3	<<	Extensive improvement in abilities may be required
Finger Dexterity	7.6	9.7	7.2	<<	Extensive improvement in abilities may be required
Originality	7.6	9.6	8.3	<	Some improvement in abilities may be required
Fluency of Ideas	7.6	9.4	7.6	<	Some improvement in abilities may be required
Number Facility	6.3	9.3	6.4	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 98
Focus Occupation: Electrical and Electronics Drafters (17-3012) Associated Occupation: Mechanical Drafters (17-3013)		
Work Activities	Exclusivity of Activity	
Analyze technical data, designs, or preliminary specifications	47	
Communicate technical information	4	
Conduct training for personnel	30	
Confer with engineering, technical or manufacturing personnel	25	
Create mathematical or statistical diagrams or charts	43	
Direct and coordinate activities of workers or staff	3	
Draw prototypes, plans, or maps to scale	57	
Examine engineering documents for completeness or accuracy	62	
Follow manufacturing methods or techniques	73	
Inspect manufactured products or materials	82	
Prepare technical reports or related documentation	22	
Read blueprints	10	

Read schematics	34
Read technical drawings	7
Understand engineering data or reports	48
Understand technical operating, service or repair manuals	6
Use computer aided drafting or design software for design, drafting, modeling, or other engineering tasks	58
Use drafting or mechanical drawing techniques	50
Use government regulations	44
Use knowledge of metric system	39
Use spreadsheet software	18

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 94

Focus Occupation: Electrical and Electronics Drafters (17-3012)
Associated Occupation: Mechanical Drafters (17-3013)

Tools and Technologies	Exclusivity
Business function specific software	1
Computers	1
Content authoring and editing software	1
Data management and query software	1
Drafting supplies	9
Industry specific software	1

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.